

CLAIM LISTING

1-20 Canceled

21. (New) A safety device for the detachable clamping of elements that are moved relative to each other, the safety device comprising:

(a) a base body adapted to be traversed by a component extending in an axial direction (Z) in such a manner that the base body and the component are two elements that are moved with respect to each other;

(b) the base body comprising at least one clamp element, which presents at least one chamber into which a medium can be admitted through a medium supply to produce an elastic change of the chamber dimensions in a direction radial to the Z direction, the medium supply comprising a valve, which can be actuated via an actuation element that can be moved, relative to the base body, in the Z direction;

(c) wherein a section of the chamber, or an element coupled to the chamber, is designed to form a force transmission element to transmit a clamping force on the component; and

(d) wherein the clamp element is designed so that when medium is admitted into the chamber to produce an elastic change of its dimensions in a direction radial to the Z direction, it clamps or releases, via the force transmission element, the component in the radial direction relative to the base body.

1 22. (New) The safety device of claim 21, wherein the actuation element is part of a weight
2 body that is guided in the Z direction.

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4 23. (New) The safety device of claim 22, wherein the weight body is arranged adjacent to the
5 base body in the Z direction, and wherein the weight body is connected with the base body
6 in a manner so it can be shifted in the Z direction.

7
8 24. (New) The safety device of claim 23, wherein the weight body can be moved relative to
9 the base body from a first position that closes the valve into a second position that opens
10 the valve.

11
12 25. (New) The safety device of claim 24, wherein the weight body is constructed to be
13 pressed by a force spring in the Z direction against the base body.

14
15 26. (New) The safety device of claim 25, wherein the weight body, during a movement
16 against the force spring, opens the valve, via the actuation element.

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18 27. (New) The safety device of claim 21, wherein, when the valve is opened, the clamp
19 element clamps the base body relative to the component.
20

1 28. (New) The safety device of claim 21, wherein the valve is adapted to be closed by the
2 movement of the weight body against the base body, to release the clamping of the
3 component against the base body.
4

5 29. (New) A safety device for the detachable clamping of elements which are moved relative
6 to each other, the safety device comprising:

7 (a) a base body, which is adapted to be penetrated by a component extending in an
8 axial direction (Z) in such a manner that the base body and the components are two
9 elements that are moved with respect to each other;

10 (b) the base body including at least one clamp element, which presents at least one
11 chamber into which a medium can be admitted through a medium supply line, the
12 medium supply line including a valve, which can be actuated via an actuation
13 element that works in cooperation with the base body in the Z direction;

14 (c) wherein a section of the chamber, or an element coupled to the chamber, is
15 designed to form a force transmission element to transmit a clamping force on the
16 component; and

17 (d) wherein the clamp element is designed so that, when medium is admitted into the
18 chamber to produce an elastic change of its dimensions in a direction radial to the
19 Z direction, it clamps or releases, via the force transmission element, the
20 component in the radial direction relative to the base body.
21

1 30. (New) The safety device of claim 29, wherein the actuation element is a part of a second
2 component substantially fixed relative to the component.
3

4 31. (New) The safety device of claim 30, wherein the actuation element is arranged adjacent
5 to the base body in the Z direction, where the base body is connected with the actuation
6 element in a manner that allows shifting in the Z direction.
7

8 32. (New) The safety device of claim 31, wherein the base body can be moved relative to the
9 actuation element from a first position closing the valve into a second position opening the
10 valve.
11

12 33. (New) The safety device of claim 32, wherein the base body is constructed to be pressed
13 by a spring force in the Z direction against the actuation element.
14

15 34. (New) The safety device of claim 33, wherein the base body is constructed to, during a
16 movement away from the actuation element, open the valve.
17

18 35. (New) The safety device of claim 29, wherein the clamp element is constructed to clamp
19 the base body relative to the component, when the valve is opened.
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- 1 36. (New) The safety device of claim 29, wherein the valve is adapted to close to release the
2 clamping of the component against the base body as a result of (a) movement of the
3 weight body against the base body, or (b) movement of the base body against the actuation
4 element.
- 5
- 6 37. (New) The safety device of claim 29, wherein the valve is adapted to release the medium
7 from the medium supply line in the opened position in the environment or in a medium
8 recycling line.
- 9
- 10 38. (New) The safety device of claim 29, wherein at least one clamp element is an annular
11 membrane surrounding the component.
- 12
- 13 39. (New) The safety device of claim 29, wherein at least one clamp element is substantially
14 made of metal.
- 15
- 16 40. (New) The safety device of claim 29, wherein the chamber further comprises top and
17 bottom curved walls, which are adapted to partially flatten in response to a reduction of
18 medium pressure in the chamber.